CLAIMS

1. A wax comprising a reaction product of:

(a) a C_6-C_{12} linear dicarboxylic acid; and

(b) a diamine of formula $H_2N(CH_2)_nNH_2$,

wherein n is an integer from 2 to 6, and a molar ratio of said C_6-C_{12} linear dicarboxylic acid to said diamine is from 0.97 to 1.06.

2. The wax of claim 1 in which said C_6-C_{12} linear dicarboxylic acid is a C_8-C_{10} linear dicarboxylic acid, and n is 2 or 3.

3. The wax of claim 2 in which a molar ratio of said C_8-C_{10} linear dicarboxylic acid to said diamine is from 0.99 to 1.03.

4. The wax of claim 3 in which said C_8-C_{10} linear dicarboxylic acid is sebacic acid, and said diamine is ethylene diamine.

5. The wax of claim 4 in which a molar ratio of said C_8-C_{10} linear dicarboxylic acid to said diamine is from 1.00 to 1.02.

6. The wax of claim 1 in which a molar ratio of said C_6-C_{12} linear dicarboxylic acid to said diamine is from 0.99 to 1.03.

7. The wax of claim 6 in which said C_6-C_{12} linear dicarboxylic acid contains a saturated alkylene group, and said diamine contains a saturated alkylene group; and n is 2 or 3.

8. The wax of claim 7 in which a molar ratio of said C_6-C_{12} linear dicarboxylic acid to said diamine is from 1.00 to 1.02.

9. The wax of claim 8 in which said C_6-C_{12} linear dicarboxylic acid is a C_8-C_{10} linear dicarboxylic acid.